

Title (en)
Paper sheet magnetic detection apparatus

Title (de)
Magnetische Papierblatterkennungs Vorrichtung

Title (fr)
Appareil de détection magnétique de feuille de papier

Publication
EP 2869276 A1 20150506 (EN)

Application
EP 14182507 A 20140827

Priority
JP 2013224946 A 20131030

Abstract (en)
The object is to avoid degradation of magnetic detection precision arising due to magnetization of transport rollers used for transporting a paper sheet. A paper sheet magnetic detection apparatus that detects a magnetic material in the paper sheet by using a magnetic sensor includes a transport path that transports paper sheets one by one; at least one magnet that is used in the detection of the magnetic material by the magnetic sensor; and a plurality of transport rollers that are arranged near the magnetic sensor and that transport the paper sheet in the transport path. Outer peripheral surfaces of the plurality of transport rollers that face the transport path are made of a nonmagnetic material.

IPC 8 full level
G07D 7/00 (2016.01); **G07D 7/04** (2016.01)

CPC (source: EP US)
B65G 39/02 (2013.01 - US); **G01R 33/02** (2013.01 - US); **G07D 7/04** (2013.01 - EP US)

Citation (applicant)
• JP 2006227951 A 20060831 - HITACHI OMRON TERMINAL SOLUTIONS CORP
• WO 2011096258 A1 20110811 - NIDEC SANKYO CORP [JP], et al

Citation (search report)
[X1] WO 2013042407 A1 20130328 - OKI ELECTRIC IND CO LTD [JP], et al & US 2014116840 A1 20140501 - MAEKAWA KINYA [JP], et al

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
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CN 104599393 A 20150506; JP 2015087896 A 20150507; RU 2568174 C1 20151110; US 10242520 B2 20190326; US 2015115947 A1 20150430

DOCDB simple family (application)
EP 14182507 A 20140827; BR 102014021314 A 20140828; CN 201410431638 A 20140828; JP 2013224946 A 20131030;
RU 2014135154 A 20140827; US 201414464112 A 20140820